

Title (en)
ICE MAKER

Title (de)
EISBEREITER

Title (fr)
APPAREIL DE FABRICATION DE GLAÇONS

Publication
EP 3653960 A1 20200520 (EN)

Application
EP 19209299 A 20191115

Priority
• KR 20180142079 A 20181116
• KR 20190081725 A 20190706
• KR 20190107712 A 20190830

Abstract (en)
Provided is an ice-maker including an upper tray (150) made of an elastic material, and having a plurality of upper chambers defined therein, a lower tray (205) made of an elastic material, and having a plurality of lower chambers defined therein in contact with the plurality of upper chambers to define a plurality of spherical ice chambers (111), respectively, each ejector-receiving opening (154) defined in the upper tray and opened to each of the plurality of upper chambers, an upper ejector disposed above the upper tray, wherein the upper ejector is configured to pass through the ejector-receiving opening and remove each ice from each ice chamber, a water supply for supplying water for ice-making through the ejector-receiving opening, and a driver for pivoting the lower tray, wherein a side wall extending upward along a perimeter of the plurality of lower chambers is formed on top portions of the plurality of lower chambers, wherein a chamber wall extending downward along a perimeter of the plurality of upper chambers is formed on bottom portions of the plurality of upper chambers, wherein the chamber wall is inserted into an internal space of the side wall when the lower tray is closed, and wherein a groove is defined in an outer face of the chamber wall to maintain pieces of ice frozen along a perimeter of the chamber wall in an attached state.

IPC 8 full level
F25C 1/10 (2006.01); **F25C 1/18** (2006.01); **F25C 5/187** (2018.01)

CPC (source: EP US)
F25C 1/04 (2013.01 - EP); **F25C 1/10** (2013.01 - US); **F25C 1/18** (2013.01 - EP); **F25C 1/243** (2013.01 - US); **F25C 5/04** (2013.01 - US); **F25C 5/06** (2013.01 - EP); **F25C 5/08** (2013.01 - EP); **F25C 2400/10** (2013.01 - US); **F25C 2400/14** (2013.01 - US)

Citation (applicant)
KR 101850918 B1 20180530

Citation (search report)
• [XAI] EP 2578969 A2 20130410 - LG ELECTRONICS INC [KR]
• [A] EP 2568235 A2 20130313 - LG ELECTRONICS [KR]
• [A] JP H01196478 A 19890808 - HOSHIZAKI ELECTRIC CO LTD

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
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EP 3653960 A1 20200520; **EP 3653960 B1 20220216**; EP 4001800 A1 20220525; US 11555641 B2 20230117; US 12055331 B2 20240806; US 2020158407 A1 20200521; US 2023124642 A1 20230420

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EP 19209299 A 20191115; EP 21217279 A 20191115; US 201916685742 A 20191115; US 202218084086 A 20221219